

Amendments to the Claims

1. (Currently amended) A process for producing an aliphatic polyester, comprising: subjecting a cyclic ester containing water and an alcohol which function as initiators or/and molecular weight-adjusting agents to ring-opening polymerization ~~based on~~ while controlling (A) a total ~~proton~~ concentration of proton sources which include carboxyl (carboxylic acid)-source compounds including water and also alkoxycarbonyl (ester)-source compounds, and (B) a ratio (~~carboxylic acid/ester mol ratio~~) between a mol concentration of the carboxyl (carboxylic acid)-source ~~compound including water~~ compounds and a mol concentration of the alkoxycarbonyl (ester)-source compounds, ~~as polymerization-controlling indexes so as to provide a weight-average molecular weight and a desired hydrolyzation rate constant, respectively, by varying the contents of the water and the alcohol in the cyclic ester.~~
2. (Original) A production process according to Claim 1, wherein the carboxylic acid/ester mol ratio is in a range of 100/0 - 2/98.
3. (Original) A production process according to Claim 1, wherein the carboxylic acid/ester mol ratio is in a range of 99/1 - 5/95.
4. (Currently amended) A production process according to Claim 1, wherein the total ~~proton~~ concentration of proton sources in the cyclic ester is adjusted within a range of above 0.09 mol% and below 2.0 mol%.
5. (Currently amended) A production process according to Claim 1, wherein the cyclic ester comprises glycolide alone or a mixture of at least 60 wt.% of glycolide and at most 40 wt.% of another cyclic monomer ~~capable of~~ copolymerizable with glycolide by ring-opening-copolymerization with glycolide polymerization.
6. (Currently amended) A production process according to Claim 1, wherein the cyclic ester after adjusting the total ~~proton~~ concentration of proton sources therein is melted under

heating in the presence of a catalyst and then the molten cyclic ester is subjected to ring-opening polymerization to precipitate a resultant polymer.

7. (Currently amended) A production process according to Claim 6, wherein the cyclic ester after adjusting the total ~~proton~~ concentration of proton sources therein is melted under heating in the presence of a catalyst, then the molten cyclic ester is transferred to a polymerization apparatus equipped with a plurality of tubes, and the cyclic ester is subjected to ring-opening polymerization in an air-tight state within each tube.

8. (Original) A production process according to Claim 7, wherein the plurality of tubes comprise tubes having both ends that can be open and closed.

9. (Currently amended) A production process according to Claim 6, wherein the cyclic ester after adjusting the total ~~proton~~ concentration of proton sources therein is melted under heating in the presence of a catalyst in a melting vessel, then the molten cyclic ester is subjected to ring-opening polymerization in a reaction vessel equipped with a stirrer, and then a resultant polymer is once cooled to be solidified and subjected to solid phase polymerization below the melting point of the polymer.

10. (Previously presented) A production process according to Claim 1, wherein the aliphatic polyester produced by the ring-opening polymerization is compounded with a carboxyl group-capping agent.

11. (Original) A production process according to Claim 10, wherein 100 wt. parts of the aliphatic polyester is compounded with 0.1 - 1.8 wt. parts of the carboxyl group-capping agent.

12. (Previously presented) A production process according to Claim 10, wherein the carboxyl group-capping agent is selected from the group consisting of monocarbodiimides, polycarbodiimides, oxazolines, oxazines and epoxy compounds.

13. (Previously presented) A production process according to Claim 10, wherein the carboxyl group-capping agent is a monocarbodiimide.
14. (Previously presented) A production process according to Claim 1, wherein 100 wt. parts of the aliphatic polyester produced by the ring-opening polymerization is compounded with at most 3 wt. parts of a thermal stabilizer.